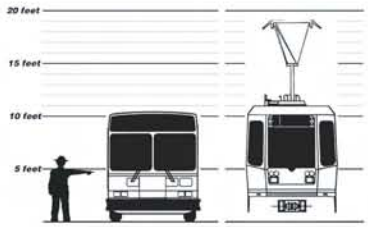
Light Rail Transit (LRT) - Examples of Vehicles and Facilities

Light Rail Vehicles:



Vehicle Type	Urban Transit Bus	Light Rail Transit Self-Propelled Coach
Manufacturer	Typical	Siemens
Model	Typical	UTA High-Floor
Height	10.5 feet	12.5 feet
Width	8.5 feet	8.67 feet
Length	40.0 feet	88.5 feet
Tare Weight	24,000 lbs	98,000 lbs.
FRA-Compliant	No	No

Light Rail Trains consist of any number of Light Rail Vehicles connected together.

To accommodate more riders, more vehicles can be added to trains.

Light Rail Power Delivery:

Light Rail Vehicles are powered by an Overhead Contact System (OCS).

Two Types of Tracks:

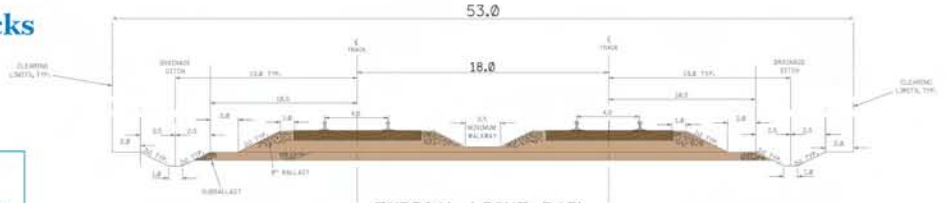
1. Ballast = above grade
2. Embedded = in roadway

Ballast tracks are generally used in corridors that are separated from roadways (e.g. TRAX south of downtown).

Embedded tracks are used when the tracks are in the roadway (e.g. downtown Salt Lake and 400 South/University Line).

Typical Cross-Sections of Tracks

(this example shows ballast tracks)



TYPICAL LIGHT RAIL TRANSIT CROSS SECTION DOUBLE TRACK

The distance between TRAX stations generally varies from 0.25 miles to 1.5 miles.

Commuter Rail Systems - Examples of Vehicles and Facilities







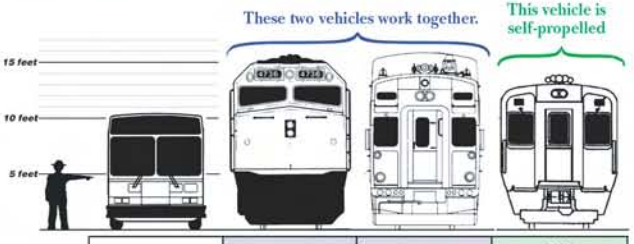








Typical Commuter Rail Vehicles



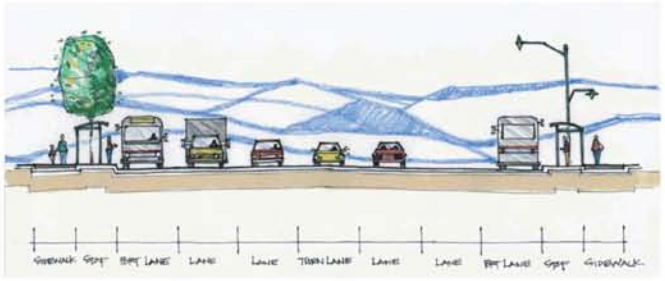
Vehicle Type	Urban Transit Bus	Passenger Train Locomotive	Bi-Level Passenger Coach	DMU Self-Propelled Coach
Height	10.5 feet	15.0 feet	16 feet	13.5 feet
Width	8.5 feet	9.9 feet	10 feet	10 feet
Length	40.0 feet	65.0 feet	85 feet	85 feet
Tare Weight	24,000 lbs	275,000 lbs.	130,000 lbs.	164,000 lbs.
	Capacity - 70 passengers	*Pulls/Pushes the Bi-Level Passenger Coach*	*Capacity - 140 passengers/car – 10 car max.*	*Capacity – 70-180 passengers/car - 4 car max.*

Commuter Rail Characteristics:

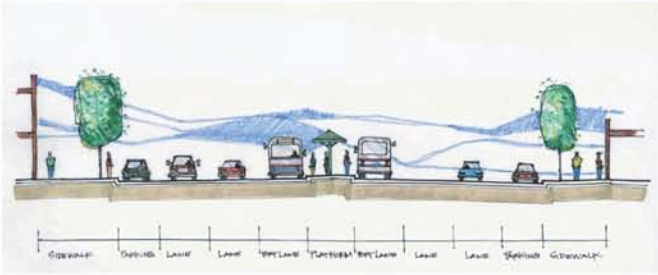
- *Powered by diesel or electric locomotive*
- *Ideal for long to medium trips*
- *Operates as fast as 79 mph*
- *Stations typically 5-7 miles apart*
- *Can share tracks with freight trains*

Bus Rapid Transit (BRT) - Examples of Vehicles and Facilities

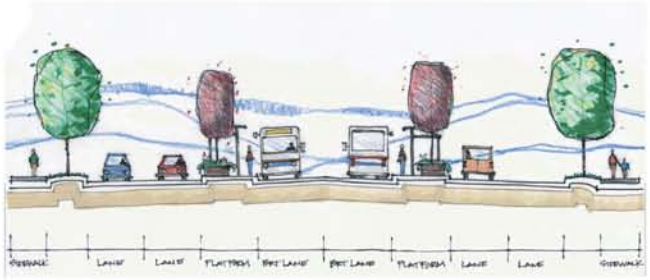
Type I BRT: *Additions to Existing Bus Service*



Type II BRT: *Dedicated Bus Lane*



Type III BRT: *Physically Separated Bus Lane on Arterial*



Type I BRT: *Grade Separated/Non-Arterial Bus Lane*